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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	LAST PROTOTYPE REVISION: PR1		N/C
N/C	INITIAL RELEASE	06/10/09	P. BRAVO
A	INCORPORATED ECN 02960, 04676, 04743	11/17/14	P. BRAVO
B	INCORPORATED ECN 05331	02/29/16	P. BRAVO
C	INCORPORATED ECN 05344	03/15/16	P. BRAVO
D	INCORPORATED ECN 05551	11/01/16	P. BRAVO
E	INCORPORATED ECN 06323	08/01/19	P. BRAVO

NOTES:

- 1 MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12
- 2 FINISH PER MPP-172 SECTION 2.1, 3.3 & 4.3, 1-2 MIL MAX
3. DEBURR AND BREAK ALL SHARP EDGES
4. IDENTIFY IAW MPP-120
- 5 APPLY F/N 5 AS REQUIRED TO ALL FAYING SURFACES OF F/N 2 & 3 UPON ASSY
- 6 MAKE FROM 647.1513

A

B

C

D

.13 X 45.0°

SECTION A-A

Ø.177  
3PL

.30 X 23.0°

2.110±.002

R1.00

4.220±.002

DETAIL B

R.26

16.44

R2.75

Ø.188

(13.74)

13.12

12.828

A

67.1°

Ø.177

54.9°

R19.50

16.58

.340<sup>+.000</sup>  
-.002

DETAIL C

.04 X 45.0°  
2 PL

.38

647.1510

13.81

C

10.27

5.026

4.97

.310

0

13.46

11.503

11.13

6.689

6.51

5.40

1.856

0

	9	647.1515	UPPER DEFLECTOR	6	2
	7	647.1514	UPPER DEFLECTOR	6	2
	6	647.1513	UPPER DEFLECTOR	1	2
A/R	5	601.2045	RTV, LOCTITE 598		
2	4	600.0523	RIVET	MS20470AD4-12	
1	3	647.1512	BREAKAWAY TIP	1	2
1	2	647.1511	LOWER DEFLECTOR	1	2
	1	647.1510	UPPER DEFLECTOR		2
X		647.1501	LOWER DEFLECTOR ASSY		
.1501	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.
QTY		PARTS LIST			
NEXT ASSY (S)		ORIGINAL DATE (MO-DA-YR)	06-10-09	<b>DART</b> 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300 APICAL INDUSTRIES, INC. dba DART AEROSPACE	
647.1400		DRAWN BY	J. GARDINER		
		CHECKER	P. BRAVO		
		DRAWING APPROVAL	P. BRAVO		
		06-10-09			
		CONTRACT No.			
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± .5°		DEFLECTORS	
		SIZE	B	CAGE CODE	07MZ6
		DWG. NO.	647.1500	REV.	E
		SCALE	NONE	SHEET	1 OF 8

1 2

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3 4 5 6 7

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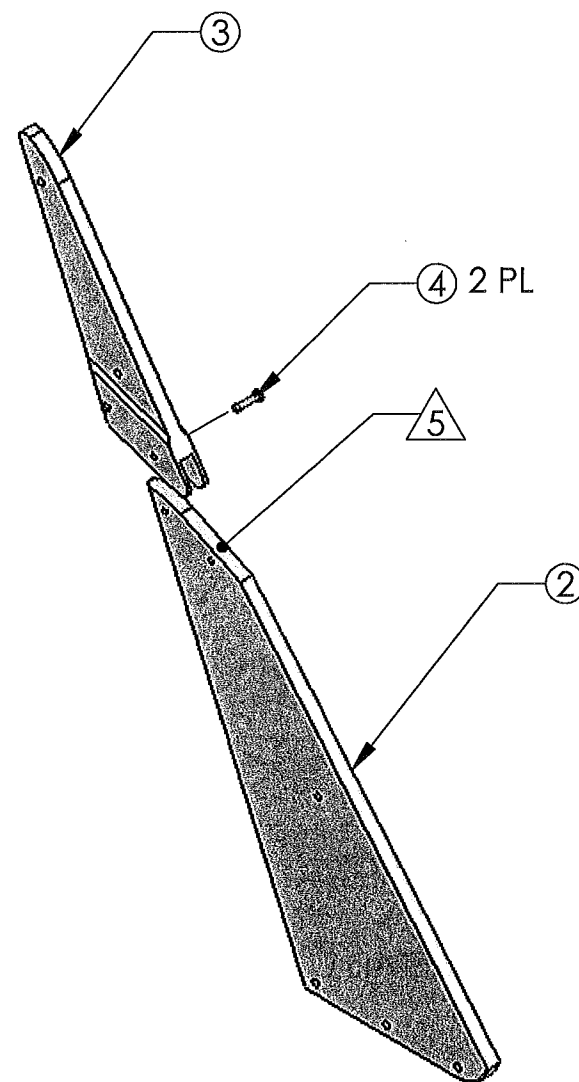
8

A

B

C

D

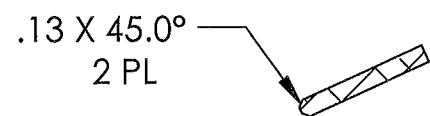
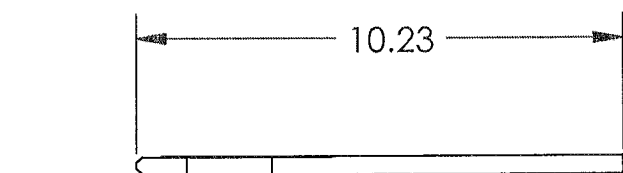


647.1501 SHOWN EXPLODED

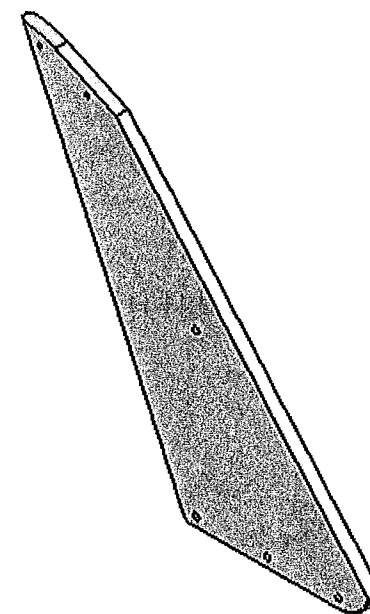
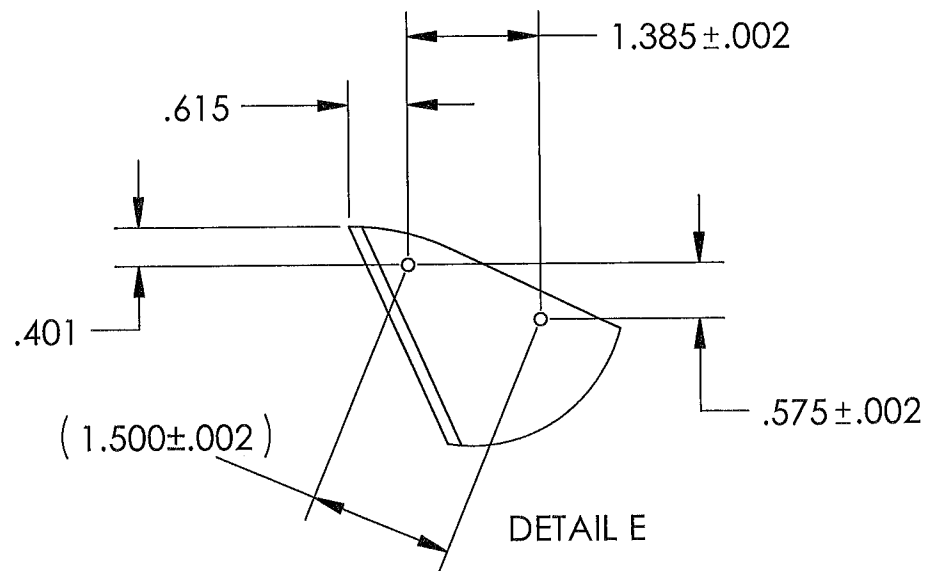
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DRAWN BY J. GARDINER	CHECKER P. BRAVO				
DRAWING APPROVAL P. BRAVO 06-10-09					
CONTRACT No.		DEFLECTORS			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± .5°		SIZE B	CAGE CODE 07MZ6	DWG. NO. 647.1500	REV. E
		SCALE NONE		SHEET 2 OF 8	

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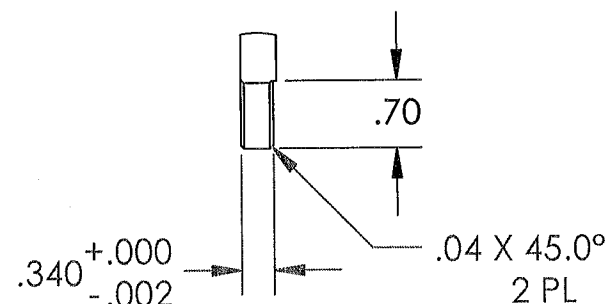
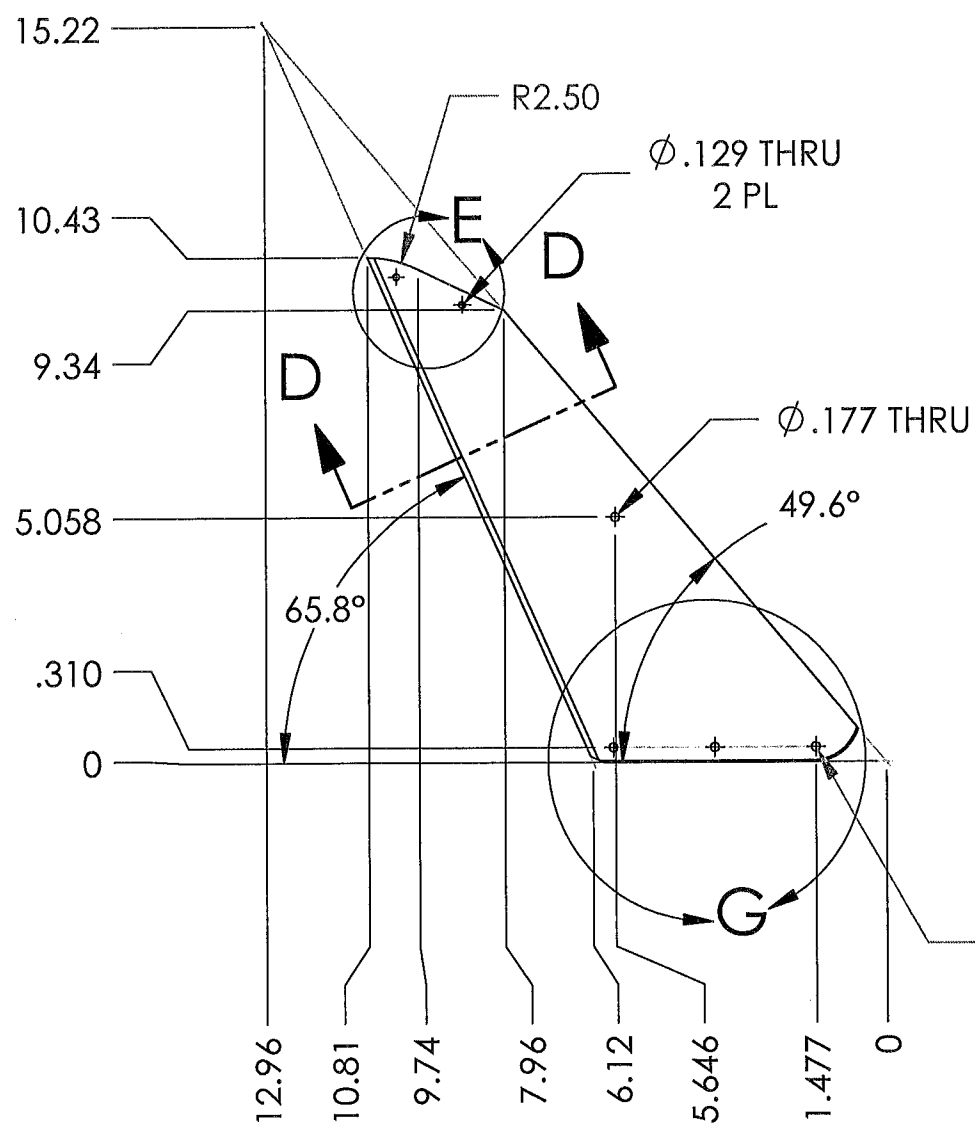
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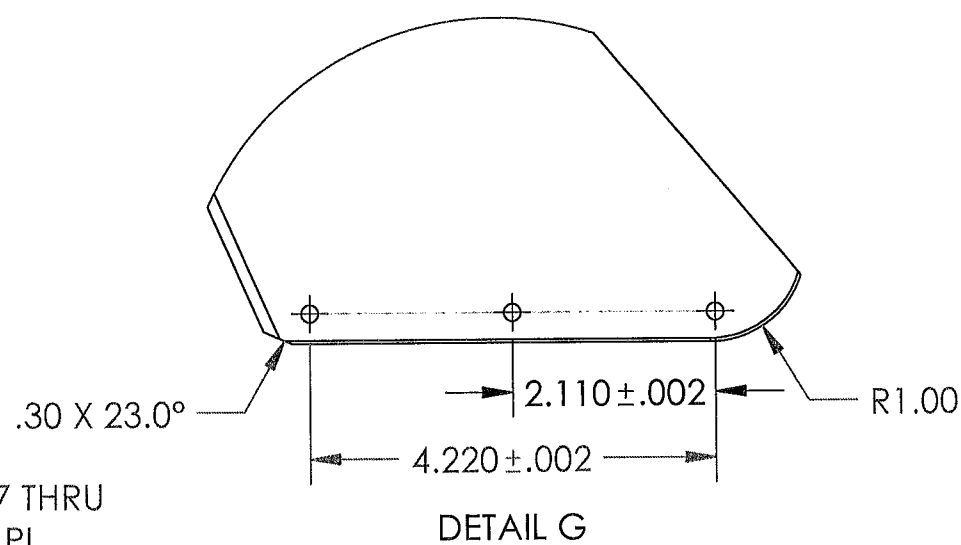
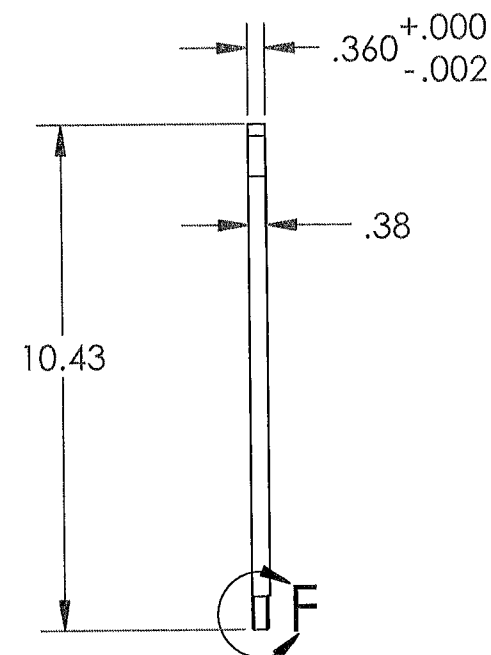
SECTION D-D



647.1511



DETAIL F



ORIGINAL DATE 06-10-09  
DRAWN BY J. GARDINER  
CHECKER P. BRAVO  
DRAWING APPROVAL P. BRAVO  
06-10-09  
CONTRACT No.

**DART** AEROSPACE  
3030 ENTERPRISE CT., SUITE A  
VISTA, CA. 92081  
(760)-724-5300  
APICAL INDUSTRIES, INC.  
dba DART AEROSPACE

DEFLECTORS

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES ARE:  
2 PLACE DECIMALS ±.01  
3 PLACE DECIMALS ±.005  
ANGLES ± .5°

SIZE	CAGE CODE	DWG. NO.	REV.
B	07MZ6	647.1500	E
SCALE NONE			SHEET 3 OF 8

A

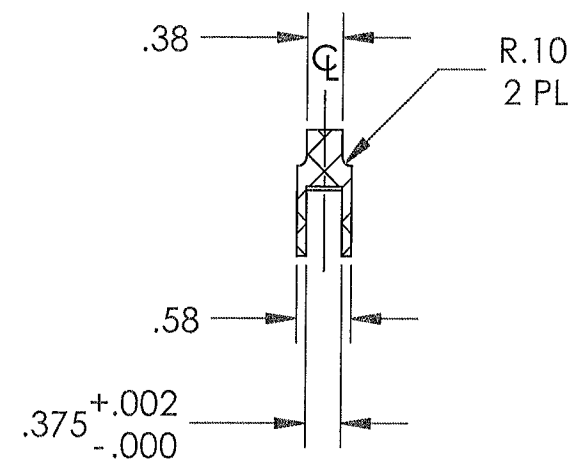
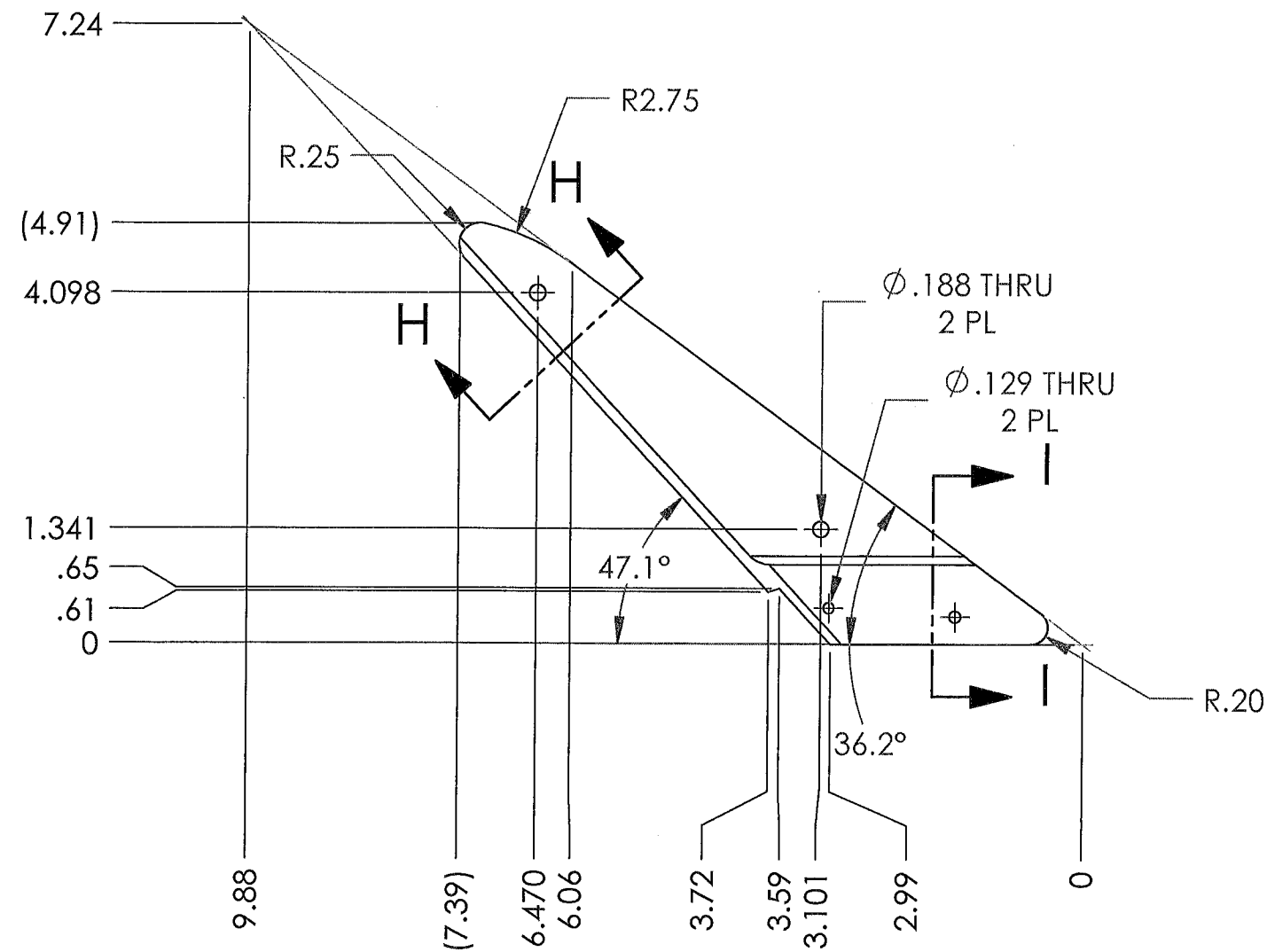
B

C

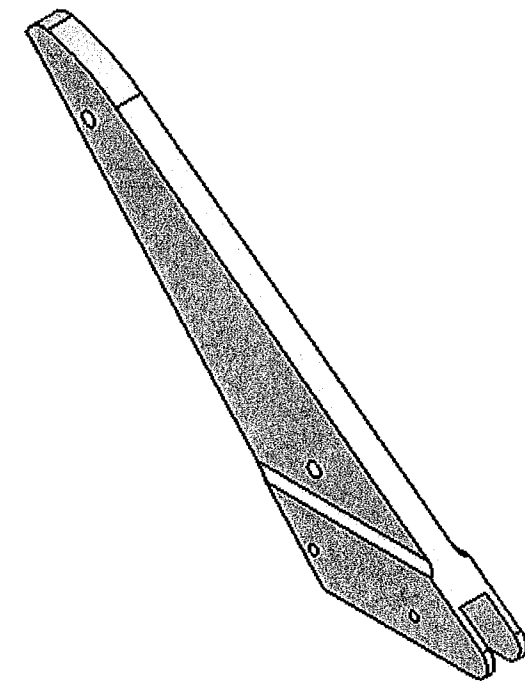
D

.13 X 45.0°  
2 PL

SECTION H-H



SECTION I-I



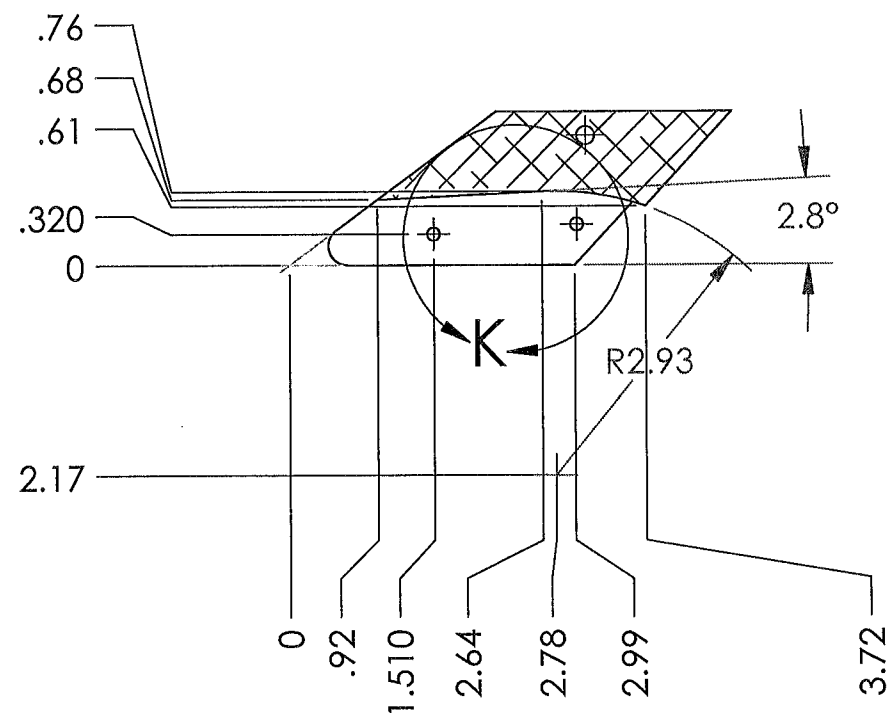
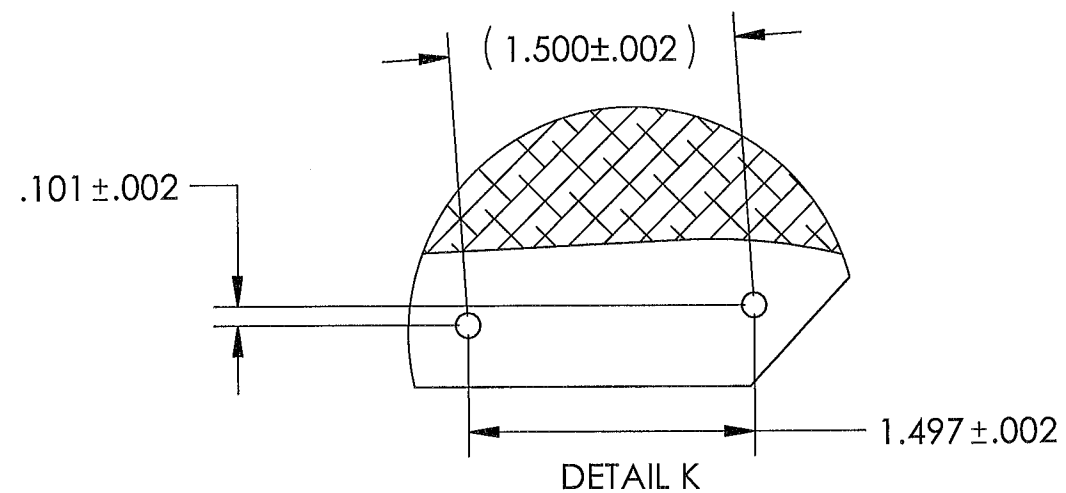
647.1512

ORIGINAL DATE [MO-DA-YR] 06-10-09		<b>DART</b> 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300 APICAL INDUSTRIES, INC. dba DART AEROSPACE	
DRAWN BY J. GARDINER	CHECKER P. BRAVO		
DRAWING APPROVAL P. BRAVO 06-10-09		DEFLECTORS	
CONTRACT No.		SCALE NONE	SHEET 4 OF 8
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE B CAGE CODE 07MZ6 DWG. NO. 647.1500	REV. E

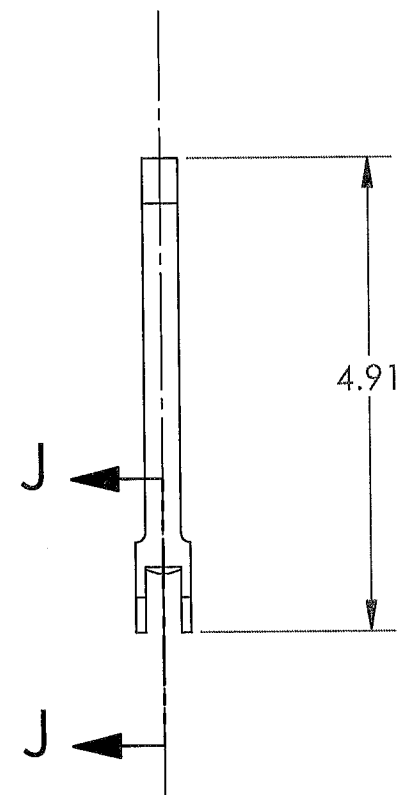


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SECTION J-J



647.1512 RIGHT VIEW

ORIGINAL DATE (MO-DA-YR) 06-10-09		<b>DART</b> 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY J. GARDINER	CHECKER P. BRAVO		
DRAWING APPROVAL P. BRAVO 06-10-09		APICAL INDUSTRIES, INC. dba DART AEROSPACE	
CONTRACT No.		DEFLECTORS	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$ ANGLES $\pm .5^\circ$		SIZE B	CAGE CODE 07MZ6
		DWG. NO. 647.1500	REV. E
		SCALE NONE	SHEET 5 OF 8

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A

B

C

D

.13 X 45°

SECTION Y-Y

Ø.177  
3 PL

.318 X 23.00°

2.110±.002

4.220±.002

R1.00

647.1513

DETAIL W

R.25

R3.03

10.70

10.18

Ø.188

45.5°

Ø.177

R19.50

4.00

.70

.31

0

60.0°

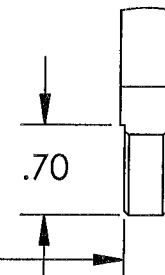
.700

6.34

10.89

.921

.340<sup>+.000</sup>  
-.002



DETAIL AA

.04 X 45.0°

.38

10.95



ORIGINAL DATE  
(MO-DA-YR) 06-10-09  
DRAWN BY J. GARDINER  
CHECKER P. BRAVO  
DRAWING APPROVAL  
P. BRAVO  
06-10-09  
CONTRACT No.

UNLESS OTHERWISE SPECIFIED  
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TOLERANCES ARE:  
2 PLACE DECIMALS ±.01  
3 PLACE DECIMALS ±.005  
ANGLES ±.5°

**DART** AEROSPACE  
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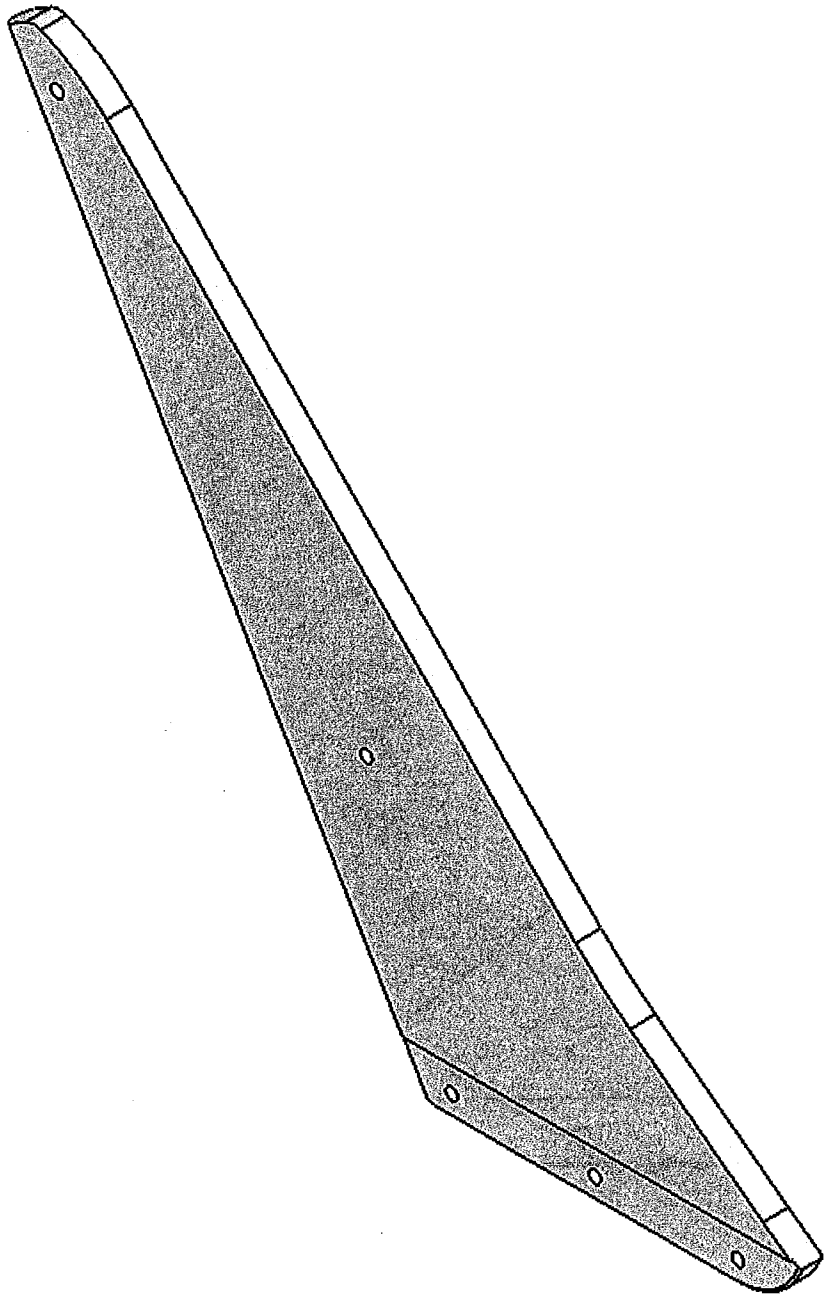
DEFLECTORS

SIZE	CAGE CODE	DWG. NO.	REV.
B	07MZ6	647.1500	E

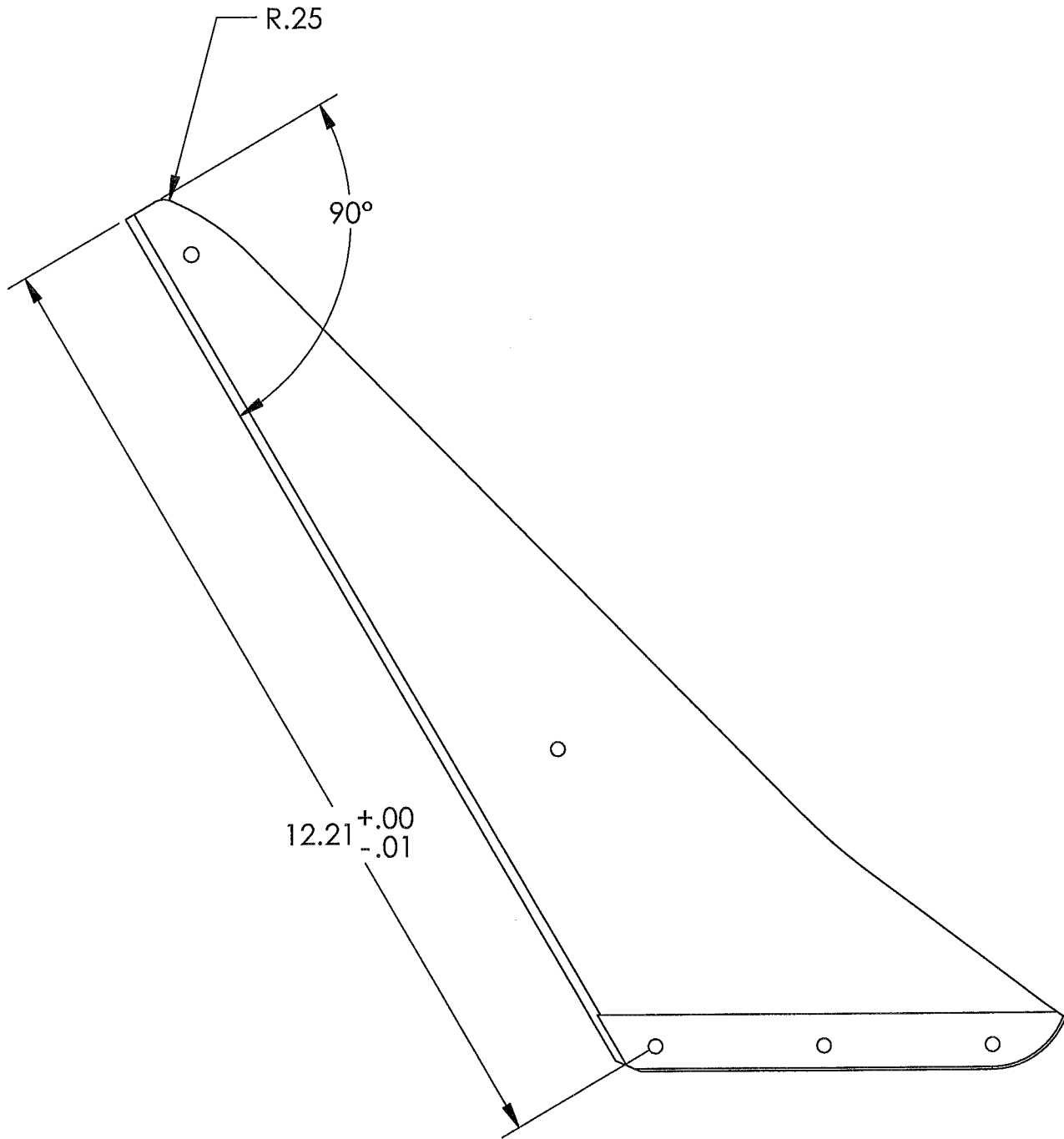
SCALE NONE SHEET 6 OF 8

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647.1514



ORIGINAL DATE  
(MO-DA-YR) 06-10-09  
DRAWN BY J. GARDINER CHECKER P. BRAVO  
DRAWING APPROVAL  
P. BRAVO  
06-10-09  
CONTRACT No.

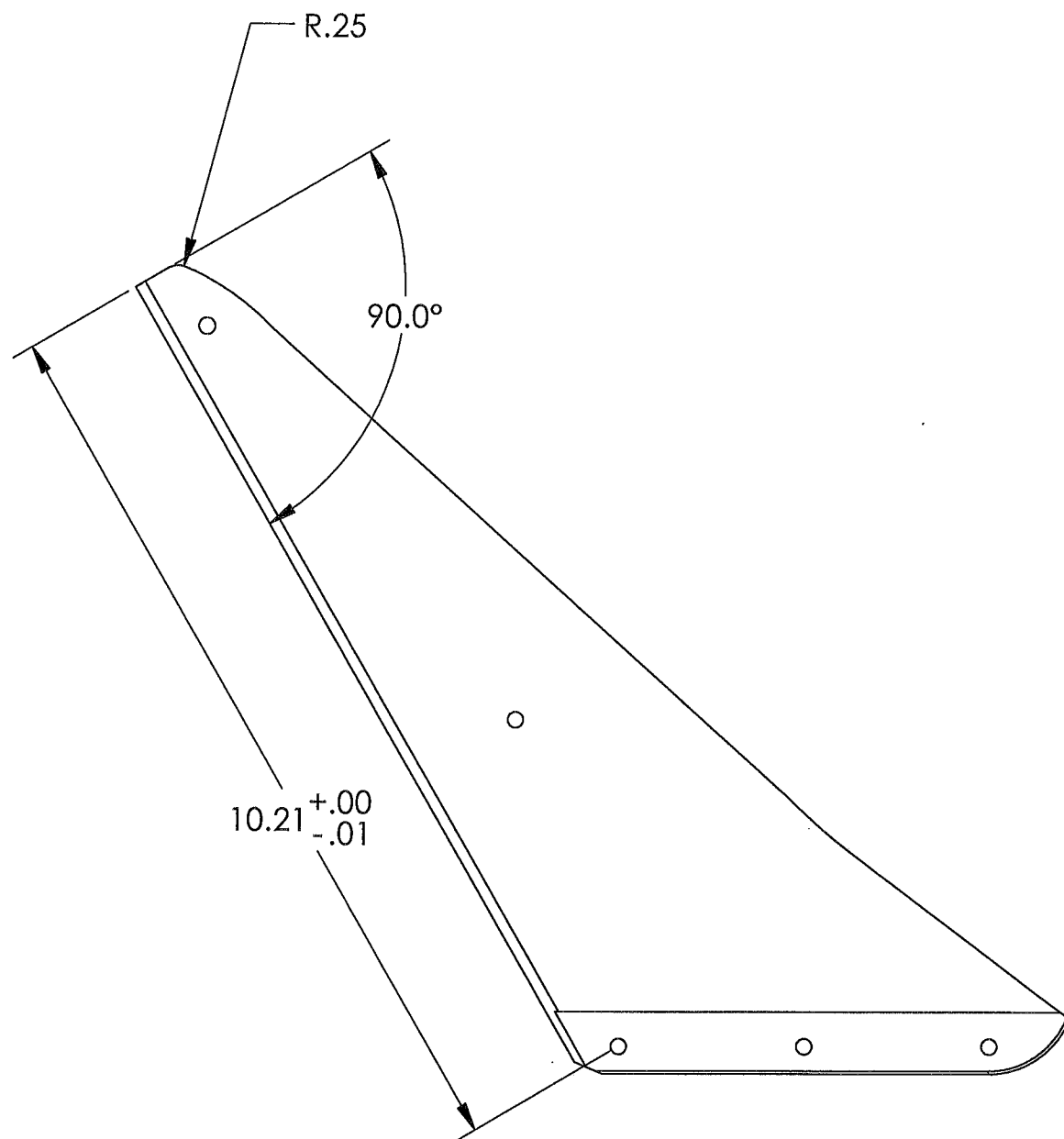
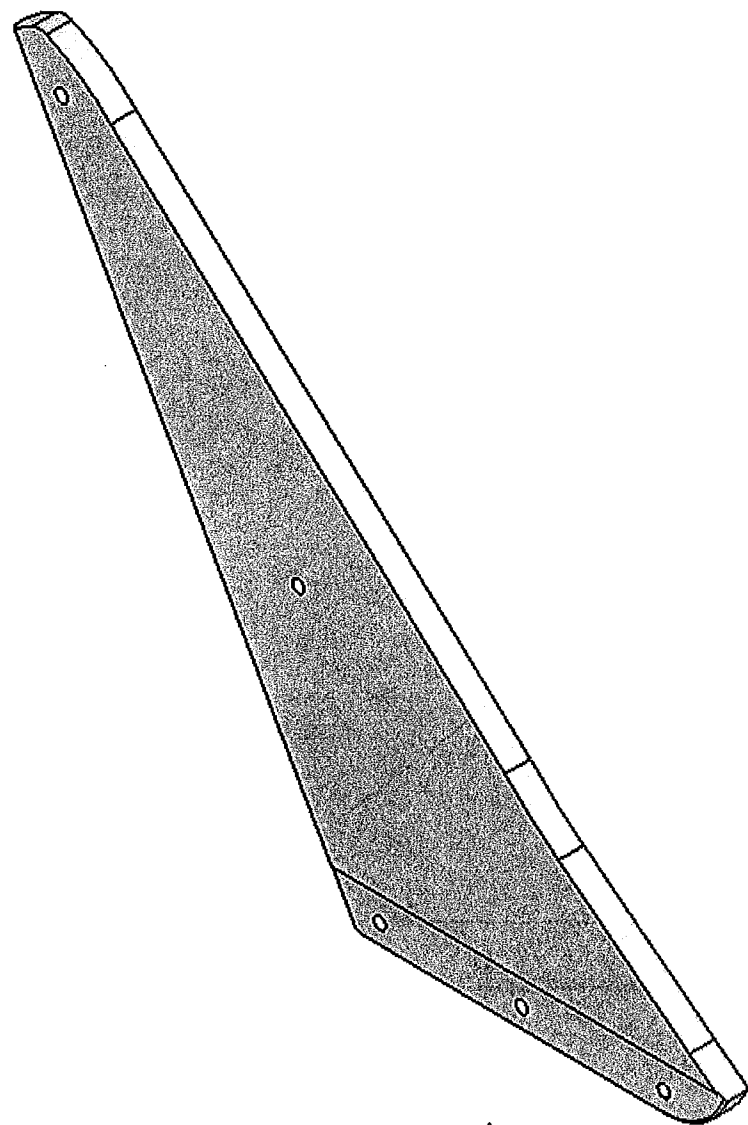
**DART** AEROSPACE 3030 ENTERPRISE CT., SUITE A  
VISTA, CA. 92081  
APICAL INDUSTRIES, INC. (760)-724-5300  
dba DART AEROSPACE

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES ARE:  
2 PLACE DECIMALS ±.01  
3 PLACE DECIMALS ±.005  
ANGLES ±.5°

DEFLECTORS  
SIZE B CAGE CODE 07MZ6 DWG. NO. 647.1500 REV. D  
SCALE NONE SHEET 7 OF 8

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ORIGINAL DATE  
(MO-DA-YR) 06-10-19  
DRAWN BY J. GARDINER CHECKER P. BRAVO  
DRAWING APPROVAL  
P. BRAVO  
06-10-09  
CONTRACT No.

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES ARE:  
2 PLACE DECIMALS  $\pm .01$   
3 PLACE DECIMALS  $\pm .005$   
ANGLES  $\pm .5^\circ$

**DART** AEROSPACE 3030 ENTERPRISE CT.,  
SUITE A  
VISTA, CA. 92081  
APICAL INDUSTRIES, INC. (760)-724-5300  
dba DART AEROSPACE

DEFLECTORS

SIZE	CAGE CODE	DWG. NO.	REV.
B	07MZ6	647.1500	E
SCALE NONE			SHEET 8 OF 8





APICAL INDUSTRIES, INC.  
dba DART AEROSPACE

TRANSACTION CODES (TC):  
A-ADD C-CREATE  
R-REVISE D-DELETE

ENGINEERING CHANGE NOTICE NO. 06323				SHEET 1 OF 1	
DWG NO. 647.1500	REV: D to E	PREPARED BY C.ZEHNER	DATE: 08-01-19	ECR: N/A	
DWG TITLE: DEFLECTORS					
APPROVED BY:	ENGR <i>[Signature]</i>			CASE NUMBER: 12867	EFF: NEXT ORDER
REASON: ADDED F/N 9 AND ADDED SHEET 8					

REASON CODE: CS	ACTION LIST: 1. N/A
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DOCUMENTS EFFECTED:	<input type="checkbox"/> PATTERN	<input type="checkbox"/> MDL	<input checked="" type="checkbox"/> INSTALL INSTRUC	<input checked="" type="checkbox"/> ICA	<input checked="" type="checkbox"/> BOM	CHANGE CATEGORY	DER REVIEW REQUIRED
						<input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> MINOR	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO